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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/421,038 10/20/99 HAFNER

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QWEST COMMUNICATIONS INTERNATIONAL INC  
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EXAMINER

CHAMPAGNE, D

ART UNIT

PAPER NUMBER

2162

DATE MAILED:

10/24/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.

09/421,038

Applicant(s)

HAFNER ET AL.

Examiner

Donald L Champagne

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 October 1999.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 20 October 1999 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102 and 35 USC § 103*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by, or, in the alternative, under 35 U.S.C. 103(a) as obvious over Benyacar et al.
4. Benyacar et al. teaches a method, system and computer readable medium for managing information and rendering discounts in a billing system, the method comprising (col. 10 lines 44-59): receiving a customer record (*AMA record 370*) at billing system 140, where the record includes the data shown in Fig. 3 (col. 7 line 16 to col. 10 line 27); executing the steps of Fig. 2 with the system of Fig. 1 (col. 5 line 41 to col. 7 line 15 and col. 10 lines 28-43), which reads on establishing both a rule-based accumulation engine and a rule-based discount engine; and generating the caller's and sponsor's billing records from the *AMA record*, including rendering discounts applicable to the customer.
5. Benyacar et al. does not teach accumulating the data in a plurality of predetermined target accumulators. However, under the principles of inherency (MPEP § 21112.02), since the reference invention necessarily performs the method claimed, the method claimed is considered to be anticipated by the reference invention. As evidence tending to show

Art Unit: 2162

inherency, it is noted that the reference teaches (col. 10 lines 44-59) substantially manipulating the data, which inherently entails placing data in computer memory locations, which reads on predetermined target accumulators.

6. Claims 1-4, 6-14 and 16-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Jagadish et al.
7. Jagadish et al. teaches (independent claims 1, 10 and 11) a method, system and computer readable medium for managing information and rendering discounts in a billing system, the method comprising: receiving a customer record (*AMA record*) at *billing analysis system 112* (col. line 22); and executing the steps of Fig. 2 with the system of Fig. 1a (col. 4 line 35-49), which reads on establishing both a rule-based accumulation engine and a rule-based discount engine, processing the record and accumulating the data in *SD 113*, in a plurality of computer memory cells, which reads on a plurality of predetermined target accumulators, and rendering discounts applicable to the customer, which reads on processing the plurality of target accumulators with the discount engine to render discounts applicable to the customer.
8. Jagadish et al. also teaches: (claims 2-4, 7, 8, 12-14, 17 and 18) the Fig. 2 series of process steps to be applied based on the number of customer lines, which reads on establishing a rules table to apply at least one rule or function when dictated by the record type, and establishing at least one simple rule for processing the record to evaluate discount application; (claims 6 and 16) adding the number of the telephone line to the record (col. 4 lines 47-54), which reads on assigning a logical name to a source field, where the accumulation engine processes the record using the logical name; and (claims 9 and 19) establishing at least one compound rule composed of simple rules (col. 5 lines 10-23).
9. Claims 5 and 15 are rejected under 35 U.S.C. 102(e) as being obvious over Jagadish et al. Jagadish et al. does not teach that the rules table directs the accumulation engine to pass data directly to a target accumulator when dictated by the record type. Because the initial purpose of the reference invention is to aggregate all the phone line records for any given customer, it would have been obvious to one of ordinary skill in the art, at the time of the invention, that processing resources could be saved by bypassing this step, and passing the data directly to the target accumulators in *SD 112*, when the customer has only one line.

Art Unit: 2162

**Conclusion**

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wardin et al. teaches some features of the instant invention.
11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald L Champagne whose telephone number is 703-308-3331. The examiner can normally be reached from 6:30 AM to 5 PM ET, Monday to Thursday. The examiner can also be contacted by e-mail at [donald.champagne@uspto.gov](mailto:donald.champagne@uspto.gov), and *informal* fax communications may be sent directly to the examiner at 703-746-5536.
12. The examiner's supervisor, Eric Stamber, can be reached on 703-305-8469. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular official communications and 703-746-7238 for After Final official communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.



Donald L. Champagne  
Examiner  
Art Unit 2162

20 October 2001